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AMENDMENTS TO THE CLAIMS

Below is the entire set of pending claims pursuant to 37 C.F.R. §1.121(c)(3)(i), with any mark-ups showing the changes made by the present Amendment.

1. (Currently amended) A color management architecture for managing red, blue, and green primary colors from a substantially white input light, the architecture having an aggregate structure comprising:
 - an input dichroic beam splitting element configured to split the input light into a first portion light and a second portion light, wherein the first portion light contains a first ~~substantially~~-non-green primary color from the input light and wherein the second portion light contains a second ~~substantially~~-non-green primary color from the input light and a ~~substantially~~-green primary color from the input light, and wherein the first portion light has a path substantially perpendicular to a path of the second portion light;
 - a first polarizing beam splitter adjacent to the input dichroic beam splitting element and configured to receive the first portion light ~~containing the first substantially non-green primary color from the input dichroic beam splitting element;~~
 - a first reflective panel adjacent to the first polarizing beam splitter and configured to modulate and reflect the first portion light;
 - a second polarizing beam splitter adjacent to the input dichroic beam splitting element and configured to receive the second portion light from the input dichroic beam splitting element and to split the second portion light into a third portion light containing the second ~~substantially~~-non-green primary color and a fourth portion

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light containing the ~~substantially-green~~ primary color, wherein the third portion
light has a path substantially perpendicular to a path of the fourth portion light;
a second reflective panel adjacent to the second polarizing beam splitter and opposite the
input dichroic beam splitting element and configured to modulate and reflect the
third portion light;
a third reflective panel adjacent to the second polarizing beam splitter and located on a
side of the aggregate structure not including the first or second reflective panels,
wherein the third reflective panel is and configured to modulate and reflect the
fourth portion light; and
a third polarizing beam splitter adjacent to the first and second polarizing beam splitters
and configured to combine the modulated and reflected lights of the first, third,
and fourth portions to form an output light, wherein the third polarizing beam
splitter provides an output for the output light on a side of the aggregate structure
not having the first, second, or third reflective panels.

2. (Original) A color management architecture according to claim 1, further
comprising:
a polarizing element optically between the input dichroic beam splitting element and the
first polarizing beam splitter.

3. (Original) A color management architecture according to claim 1, further
comprising:

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a polarizing element optically between the input dichroic beam splitting element and the second polarizing beam splitter.

4. (Original) A color management architecture according to claim 1, further comprising:

a first polarizing element optically between the input dichroic beam splitting element and the first polarizing beam splitter; and

a second polarizing element optically between the input dichroic beam splitting element and the second polarizing beam splitter.

5. (Currently amended) A color management architecture according to claim 1, further comprising:

a dichroic filter optically between the input dichroic beam splitting element and the first polarizing beam splitter and configured to substantially transmit the first portion light and substantially block the second portion light~~substantially non-green primary color and the substantially green primary color.~~

6. (Currently amended) A color management architecture according to claim 1, further comprising:

a dichroic filter optically between the input dichroic beam splitting element and the second polarizing beam splitter and configured to substantially transmit the second portion light and substantially block the first portion light~~substantially non-green primary color.~~

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7. (Currently amended) A color management architecture according to claim 1, further comprising:
- a first dichroic filter optically between the input dichroic beam splitting element and the first polarizing beam splitter and configured to substantially transmit the first portion light and substantially block the second portion light ~~substantially non-green primary color and the substantially green primary color~~; and
 - a second dichroic filter optically between the input dichroic beam splitting element and the second polarizing beam splitter and configured to substantially transmit the second portion light and substantially block the first portion light ~~substantially non-green primary color~~.

8. (Currently amended) A color management architecture according to claim 1, further comprising:
- a polarization rotation element optically between the input dichroic beam splitting element and the second polarizing beam splitter and configured to rotate at least one of the third and fourth portions ~~second substantially non-green primary color and the substantially green primary color~~.

9. (Original) A color management architecture according to claim 8, wherein the polarization rotation element is selected from the group consisting of a magenta/green filter and a red/cyan filter.

10. (Original) A color management architecture according to claim 1, further comprising:

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a polarization rotation element optically between the second polarizing beam splitter and the third polarizing beam splitter and configured to rotate the modulated and reflected lights of at least one of the third and fourth portions.

11. (Original) A color management architecture according to claim 10, wherein the polarization rotation element is further configured to compensate the modulated and reflected lights of at least one of the third and fourth portions for skew rays.

12. (Currently amended) A color management architecture according to claim 1, further comprising:

a first polarization rotation element optically between the input dichroic beam splitting element and the second polarizing beam splitter and configured to rotate at least one of the third and fourth portions~~second substantially non-green primary color and the substantially green primary color~~; and

a second polarization rotation element optically between the second polarizing beam splitter and the third polarizing beam splitter and configured to rotate the modulated and reflected lights of at least one of the third and fourth portions.

13. (Original) A color management architecture according to claim 12, wherein the first polarization rotation element is selected from the group consisting of a magenta/green filter and a red/cyan filter; and the second polarization rotation element is further configured to compensate the modulated and reflected lights of at least one of the third and fourth portions for skew rays

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14. (Original) A color management architecture according to claim 1, further comprising:
a oblique-plate compensator optically between the input dichroic beam splitting element and the first polarizing beam splitter.
15. (Original) A color management architecture according to claim 1, further comprising:
a oblique-plate compensator optically between the input dichroic beam splitting element and the second polarizing beam splitter.
16. (Original) A color management architecture according to claim 1, further comprising:
a first oblique-plate compensator optically between the input dichroic beam splitting element and the first polarizing beam splitter; and
a second oblique-plate compensator optically between the input dichroic beam splitting element and the second polarizing beam splitter.
17. (Currently amended) A method of projecting light through an aggregate structure for color management of red, blue, and green primary colors from a substantially white input light, the method comprising:
splitting a substantially white input light into a first portion light and a second portion light with a dichroic beam splitter, wherein the first portion light contains a first ~~substantially~~ non-green primary color from the input light and wherein the second portion light contains a second ~~substantially~~ non-green primary color from the input light and a ~~substantially~~ green primary color from the input light, and

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wherein the first portion light has a path substantially perpendicular to a path of the second portion light;

directing the first portion of light to a first panel with a first polarizing beam splitter located adjacent to the dichroic beam splitter, the first panel located adjacent to the first polarizing beam splitter for modulating and reflecting the first portion of light;

splitting the second portion of light into a third portion light containing the second ~~substantially non-green~~ primary color and a fourth portion light containing the ~~substantially green~~ primary color with a second polarizing beam splitter located adjacent to the dichroic beam splitter, wherein the third portion light has a path substantially perpendicular to a path of the fourth portion light;

directing the third portion of light to a second panel with the second polarizing beam splitter, the second panel located adjacent to the second polarizing beam splitter and opposite the dichroic beam splitter for modulating and reflecting the third portion of light;

directing the fourth portion of light to a third panel with the second polarizing beam splitter, wherein the third panel is located adjacent to the second polarizing beam splitter and located on a side of the aggregate structure not including the first or second panels, the third panel modulating and reflecting the fourth portion of light;

combining the modulated and reflected third and fourth portions of light with the second polarizing beam splitter to form a fifth portion of light; ~~and~~

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combining the modulated and reflected first portion of light with the fifth portion of light
using a third polarizing beam splitter to form an output light, the third polarizing
beam splitter located adjacent to the first and second polarizing beam splitters;
and
outputting the output light from the third polarizing beam splitter on a side of the
aggregate structure not having the first, second, or third panels.

18. (Original) A method according to claim 17, further comprising:
compensating light of the first portion with a first oblique-plate compensator; and
compensating light of the second portion with a second oblique-plate compensator.
19. (Original) A method according to claim 17, further comprising:
compensating light of the fifth portion before combining the modulated and reflected first
portion of light with the fifth portion of light.
20. (Original) A method according to claim 17, wherein the light of the fifth portion
is compensated using a polarization rotation element.
21. (Currently amended) A color management architecture for managing red, blue,
and green primary colors from a substantially white input light, the architecture comprising:
an input dichroic beam splitting element configured to split the input light into a first
portion and a second portion, wherein the first portion contains a first
~~substantially non-green~~ primary color from the input light and wherein the second
portion contains a second ~~substantially non-green~~ primary color from the input
light and a ~~substantially green~~ primary color from the input light;

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a first polarizing beam splitter configured to receive the first portion light containing the first ~~substantially~~-non-green primary color from the input dichroic beam splitting element;

a first reflective panel adjacent to the first polarizing beam splitter and configured to modulate and reflect the first portion light;

a second polarizing beam splitter configured to receive the second portion light and to split the second portion light into a third portion light containing the second ~~substantially~~-non-green primary color and a fourth portion light containing the ~~substantially~~-green primary color;

a second reflective panel adjacent to the second polarizing beam splitter and configured to modulate and reflect the third portion light;

a third reflective panel adjacent to the second polarizing beam splitter and configured to modulate and reflect the fourth portion light;

a third polarizing beam splitter adjacent to the first and second polarizing beam splitters and configured to combine the modulated and reflected lights of the first, third, and fourth portions to form an output light; and

at least one skew ray compensator optically positioned and configured to compensate the lights of at least one of the first, second, third, and fourth portions.

22. (Original) A color management architecture according to claim 21, further comprising:

a polarizing element optically between the input dichroic beam splitting element and the first polarizing beam splitter.

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23. (Original) A color management architecture according to claim 21, further comprising:

a polarizing element optically between the input dichroic beam splitting element and the second polarizing beam splitter.

24. (Original) A color management architecture according to claim 21, further comprising:

a first polarizing element optically between the input dichroic beam splitting element and the first polarizing beam splitter; and
a polarizing element optically between the input dichroic beam splitting element and the second polarizing beam splitter.

25. (Currently amended) A color management architecture according to claim 21, further comprising:

a dichroic filter optically between the input dichroic beam splitting element and the first polarizing beam splitter and configured to substantially transmit the first portion light and substantially block the second substantially-non-green primary color and the substantially-green primary color.

26 (Currently amended) A color management architecture according to claim 21, further comprising:

a dichroic filter optically between the input dichroic beam splitting element and the second polarizing beam splitter and configured to substantially transmit the second portion light and substantially block the first substantially-non-green primary color.

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27. (Currently amended) A color management architecture according to claim 21,
further comprising:

a first dichroic filter optically between the input dichroic beam splitting element and the first polarizing beam splitter and configured to substantially transmit the first portion light and substantially block the second ~~substantially~~-non-green primary color and the ~~substantially~~-green primary color; and

a second dichroic filter optically between the input dichroic beam splitting element and the second polarizing beam splitter and configured to substantially transmit the second portion light and substantially block the first ~~substantially~~-non-green primary color.

28. (Currently amended) A color management architecture according to claim 21,
further comprising:

a polarization rotation element optically between the input dichroic beam splitting element and the second polarizing beam splitter and configured to rotate at least one of the second ~~substantially~~-non-green primary color and the ~~substantially~~ green primary color.

29. (Original) A color management architecture according to claim 28, wherein the polarization rotation element is selected from the group consisting of a magenta/green filter and a red/cyan filter.

30. (Original) A color management architecture according to claim 21, further comprising:

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a polarization rotation element optically between the second polarizing beam splitter and the third polarizing beam splitter and configured to rotate the modulated and reflected lights of at least one of the third and fourth portions.

31. (Original) A color management architecture according to claim 30, wherein the polarization rotation element is further configured to compensate modulated and reflected lights of at least one of the third and fourth portions for skew rays.

32. (Currently amended) A color management architecture according to claim 21, further comprising:

a first polarization rotation element optically between the input dichroic beam splitting element and the second polarizing beam splitter and configured to rotate at least one of the second substantially-non-green primary color and the substantially green primary color; and

a second polarization rotation element optically between the second polarizing beam splitter and the third polarizing beam splitter and configured to rotate the modulated and reflected lights of at least one of the third and fourth portions.

33. (Original) A color management architecture according to claim 32, wherein the first polarization rotation element is selected from the group consisting of a magenta/green filter and a red/cyan filter; and the second polarization rotation element is further configured to compensate modulated and reflected lights of at least one of the third and fourth portions for skew rays.

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34. (Original) A color management architecture according to claim 21, wherein the at least one skew ray compensator is an oblique-plate skew ray compensator.

35. (Original) A color management architecture according to claim 34, further comprising:

a oblique-plate skew ray compensator optically between the input dichroic beam splitting element and the first polarizing beam splitter.

36. (Original) A color management architecture according to claim 34, further comprising:

a oblique-plate skew ray compensator optically between the input dichroic beam splitting element and the second polarizing beam splitter.

37. (Original) A color management architecture according to claim 34, further comprising:

a first oblique-plate skew ray compensator optically between the input dichroic beam splitting element and the first polarizing beam splitter, and
a second oblique-plate skew ray compensator optically between the input dichroic beam splitting element and the second polarizing beam splitter.

38. (Original) A color management architecture comprising:

an input dichroic beam splitting element configured to split an input light into a first portion and a second portion;

a first light directing element configured to receive light of the first portion from the input dichroic beam splitting element;

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a first reflective panel adjacent to the first light directing element and configured to modulate and reflect light of the first portion;

a second light directing element configured to split light of the second portion into a third portion and a fourth portion;

a second reflective panel adjacent to the second light directing element and configured to modulate and reflect light of the third portion;

a third reflective panel adjacent to the second light directing element and configured to modulate and reflect light of the fourth portion;

a third light directing element adjacent to the first and second light directing elements and configured to combine modulated and reflected light of the first, third, and fourth portions to form an output light; and

at least one skew ray compensator optically positioned and configured to compensate the lights of at least one of the first, second, third, and fourth portions.

39. (Original) A color management architecture according to claim 38, further comprising:

a polarizing element optically between the input dichroic beam splitting element and the first light directing element.

40. (Original) A color management architecture according to claim 38, further comprising:

a polarizing element optically between the input dichroic beam splitting element and the second light directing element.

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41. (Original) A color management architecture according to claim 38, further comprising:
- a first polarizing element optically between the input dichroic beam splitting element and the first light directing element; and
 - a second polarizing element optically between the input dichroic beam splitting element and the second light directing element.
42. (Original) A color management architecture according to claim 38, further comprising:
- a dichroic filter optically between the input dichroic beam splitting element and the first light directing element and configured to transmit light of the first portion.
43. (Original) A color management architecture according to claim 38, further comprising:
- a dichroic filter optically between the input dichroic beam splitting element and the second light directing element and configured to transmit light of the second portion.
44. (Original) A color management architecture according to claim 38, further comprising:
- a first dichroic filter optically between the input dichroic beam splitting element and the first light directing element and configured to transmit light of the first portion;
 - and

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a second dichroic filter optically between the input dichroic beam splitting element and the second light directing element and configured to transmit light of the second portion.

45. (Original) A color management architecture according to claim 38, further comprising:

a polarization rotation element optically between the input dichroic beam splitting element and the second light directing element and configured to rotate a portion of the wavelength spectrum of the second portion.

46. (Original) A color management architecture according to claim 45, wherein the polarization rotation element is selected from the group consisting of a magenta/green filter and a red/cyan filter.

47. (Currently amended) A color management architecture according to claim 3837, further comprising:

a polarization rotation element optically between the second light directing element and the third light directing element and configured to rotate the lights of at least one of the third and fourth portions.

48. (Currently amended) A color management architecture according to claim 3837, further comprising:

a first polarization rotation element optically between the input dichroic beam splitting element and the second light directing element and configured to rotate a portion of the wavelength spectrum of the second portion;

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a second polarization rotation element optically between the second light directing element and the third light directing element and configured to rotate the lights of at least one of the third and fourth portions.

49. (Original) A color management architecture according to claim 48, wherein the first polarization rotation element is selected from the group consisting of a magenta/green filter and a red/cyan filter.

50. (Original) A color management architecture according to claim 38, further comprising:

a oblique-plate compensator optically between the input dichroic beam splitting element and the first light directing element and configured to compensate the light of the first portion for skew rays.

51. (Original) A color management architecture according to claim 38, further comprising:

a oblique-plate compensator optically between the input dichroic beam splitting element and the second light directing element and configured to compensate the light of the second portion for skew rays.

52. (Original) A color management architecture according to claim 38, further comprising:

a first oblique-plate compensator optically between the input dichroic beam splitting element and the first light directing element and configured to compensate the light of the first portion for skew rays; and

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a second oblique-plate compensator optically between the input dichroic beam splitting element and the second light directing element and configured to compensate the light of the second portion for skew rays.